CLAIMS

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Having described the invention that which is claimed is:

- 1. A polymeric fabric treated with a silicone compound selected from the group consisting of:
 - 1) polysiloxane polyethers having the formula:

$$((R^{1}O(C_{2}H_{4}O)_{a}(CH_{2})_{b})_{3-c}R^{2}_{c}SiO_{1/2})_{2} (SiO)_{c}$$

where R¹ is selected from the group consisting of hydrogen and alkyls and R² and R³ are each independently selected from the group consisting of one to forty carbon atom monovalent hydrocarbon radicals; the subscript a ranges from about 1 to about 8; the subscript b ranges from about 1 to about 10; the subscript c ranges from zero to 2; the subscript d ranges from about to 1 to about 10; and the number average molecular weight ranging from ranges from about to 300 to about 1,000.

2) polysiloxane polyethers having the formula:

$$\begin{array}{c|c} H & R^{3} \\ \hline \\ ((R^{1}O(CCH_{2}O)_{a}(CH_{2})_{b})_{3-c}R^{2}{}_{c}SiO_{1/2})_{2}(SiO)_{c} \\ \hline \\ CH_{3} & R^{3} \\ \end{array}$$

, where R¹ is selected from the group consisting of hydrogen and alkyls and R² and R³ are each independently selected from the group consisting of one to forty carbon atom monovalent hydrocarbon radicals; the subscript a ranges from about to 1 to about 8; the subscript b ranges from about 1 to about 10; the subscript c ranges from zero to 2; the subscript d ranges from about to 1 to about 10; and the number

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average molecular weight ranging from ranges from about to 300 to about 1,000;

3) polysiloxane polyethers having the formula:

$$((R^{1}O(C_{2}H_{4}O)_{a}(CH_{2})_{b})_{3-c}R^{2}_{c}SiO_{1/2})_{2}(SiO)_{d}(SiO)_{e}$$

$$(CH_{2}CH_{2}O)_{a}H, \text{ where } R^{1} \text{ is selected}$$

from the group consisting of hydrogen and alkyls and R² and R³ are each independently selected from the group consisting of one to forty carbon atom monovalent hydrocarbon radicals; the subscript a ranges from about to 1 to about 8; the subscript b ranges from about 1 to about 10; the subscript c ranges from zero to 2; the subscript d ranges from about to 1 to about 10; the subscript e ranges from about to 1 to about 10; and the number average molecular weight ranging from ranges from about to 300 to about 1,000; and

4) mixtures thereof

whereby said fabric is rendered durably hydrophilic.

2. The silicone compound of claim 1 wherein said silicone is:

$$((R^{1}O(C_{2}H_{4}O)_{a}(CH_{2})_{b})_{3-c}R^{2}_{c}SiO_{1/2})_{2}(SiO)_{c}$$

The treatment silicone compound of claim 1 wherein said silicone is: 3.

$$((R^{1}O(CCH_{2}O)_{a}(CH_{2})_{b})_{3-c}R^{2}_{c}SiO_{1/2})_{2}(SiO)_{c}\\ CH_{3}$$

4. The silicone compound of claim 1 wherein said silicone is:

4. The silicone compound of claim 1 wherein said silicone (R¹O(C₂H₄O)_a(CH₂)_b)_{3-c}R²_cSiO_{1/2})₂ (SiO)_d(SiO)_e
$$R^3 \quad (CH_2)_b \quad (CH_2CH_2O)_aH.$$

- A polymeric fabric wherein said fabric has been treated with the 5. 5 treatment silicone of claim 1.
 - 6. A polymeric fabric wherein said fabric has been treated with the treatment silicone of claim 2.
- A polymeric fabric wherein said fabric has been treated with the treatment silicone of claim 3. 10
 - 8. A polymeric fabric wherein said fabric has been treated with the treatment silicone of claim 4.
 - 9. The polymeric fabric of claim 5 comprising a polymer wherein said polymer is selected from the group consisting of:
- alkyd resins, ophthalmic anhydride-glycerol resins, maleic acid-15 glycerol resins, adipic acid-glycerol resins, phthalic anhydridepentaerythritol resins; allylic resins cross-linked by diallyl phthalate,

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diallyl isophthalate diallyl maleate, or diallyl chlorendate; anilineethylene urea-formaldehyde formaldehyde resins, resins, dicyandiamide-formaldehyde resins, melamine-formaldehyde resins, sulfonamide-formaldehyde resins, and urea-formaldehyde resins; epoxy resins, epichlorohydrin-bisphenol A resins; phenolic resins, resins, phenol-formaldehyde end-capped polyacetals, poly(oxymethylene), polyformaldehyde, poly(trichloroacetaldehyde), poly(n-valeraldehyde), poly(acetaldehyde), poly(propionaldehyde), acrylic polymers, polyacrylamide, poly(acrylic acid), poly(methacrylic acid), poly(ethyl acrylate), poly(methyl methacrylate), fluorocarbon poly(tetrafluoroethylene), perfluorinated ethylenepolymers, copolymers, ethylene-tetrafluoroethylene copolymers, propylene ethylene-chlorotrifluoroethylene poly(chlorotrifluoroethylene), fluoride), poly(vinyl fluoride), poly(vinylidene copolymers, polyamides, such as poly(6-aminocaproic acid) or poly(epsilon caprolactam), poly(hexamethylene adipamide), poly(hexamethylene poly(11-amino-undecanoic acid), polyaramides, sebacamide), or poly(m-phenylene poly(imino-1,3-phenyleneiminoisophthaloyl) isophthalamide), parylenes, poly-p-xylylene, poly(chloro-p-xylylene), poly(oxy-2,6-dimethyl-1,4-phenylene), polyaryl ethers, phenylene oxide), polyaryl sulfones, poly(oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene-isopropylidene-l,4-phenylene), poly(sulfonyl-1,4-phenyleneoxy1,4-phenylenesulfonyl-4,4'biphenylene), polycarbonates, poly(bisphenolA)orpoly(carbonyldioxypolyesters, 1,4-phenylene), 1,4-phenyleneisopropylideneterephthalate), poly(tetramethylene terephthalate), poly(ethylene poly(cyclohexylene-1,4-dimethylene terephthalate), poly(oxymethylene-1,4-cyclohexylenemethyleneoxyterephthaloyl), polyaryl sulfides, poly(p-phenylene sulfide), poly(thio-1,4-phenylene), poly(pyromellitimido-1,4-phenylene), polyolefins, polyimides,

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polyethylene, polypropylene, poly(1-butene), poly(2-butene), poly(1-pentene), poly(2-pentene), poly(3-methyl-1-pentene), poly(4-methyl-1-pentene), 1,2-poly-1,3-butadiene, 1,4-poly- 1,3-butadiene, polyisoprene, polychloroprene, polyacrylonitrile, poly(vinyl acetate), poly(vinylidene chloride), polystyrene, copolymers of the foregoing, acrylonitrile-butadiene-styrene (ABS) copolymers, and mixtures thereof.

- 10. The polymeric fabric of claim 5 comprising a polymer wherein said polymer is a natural polymer selected from the group consisting of cotton, silk, wool, and cellulose.
- 11. The polymeric fabric of claim 9 wherein said polymer is selected from the group consisting of polyethylene, polypropylene, poly(1-butene), poly(2-butene), poly(1-pentene), poly(2-pentene), poly(3-methyl-1-pentene), poly(4-methyl-1-pentene), 1,2-poly-1,3-butadiene, 1,4-poly-1,3-butadiene, polyisoprene, polychloroprene, polyacrylonitrile, poly(vinyl acetate), poly(vinylidene chloride), polystyrene, copolymers of the foregoing, acrylonitrile-butadiene-styrene (ABS) copolymers, and mixtures thereof.
- 12. The polymeric fabric of claim 11 wherein said polymer is selected from the group consisting of polyethylene and polypropylene.
 - 13. The polymeric fabric of claim 12 wherein said polymer is polyethylene.
 - 14. The polymeric fabric of claim 13 wherein said polymer is polypropylene.
 - 15. The polymeric fabric of claim 10 wherein said polymer is cellulose.
- 25 16. The polymeric fabric of claim 15 wherein said cellulose is paper.